

## Silver- and vanadium-containing multimetal oxide and its use

## Abstract

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A multimetal oxide of the formula I



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where M is a metal selected from the group consisting of Li, Na, K, Rb, Cs, Tl, Mg, Ca, Sr, Ba, Cu, Zn, Cd, Pb, Cr, Au, Al, Fe, Co, Ni and/or Mo,

15 a is from 0.3 to 1.9 and

b is from 0 to 0.5, with the proviso that the difference (a-b)  $\geq 0.1$  and

20 c is from 0 to 20 and

x is a number determined by the valence and amount of elements different from oxygen in the formula I,

25 has a crystal structure giving an X-ray powder diffraction pattern which displays reflections at the lattice spacings d of  $15.23 \pm 0.6$ ,  $12.16 \pm 0.4$ ,  $10.68 \pm 0.3$ ,  $3.41 \pm 0.04$ ,  $3.09 \pm 0.04$ ,  $3.02 \pm 0.04$ ,  $2.36 \pm 0.04$  and  $1.80 \pm 0.04$  Å.

30 Precatalysts and catalysts produced therefrom for the partial oxidation of aromatic hydrocarbons are also provided.

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